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DESCRIPTORS: *Cryolite, Fused materials,
*Alumina, Industrial production, Electrolysis,
Electrical conductance.

It is shown that the conductivity of the cryolite,,
at constant temperature, decreases linearly with
increasing Al_2O_3 content. From this fact one can
deduce that the Al_2O_3 functions as an associated
inert solvent for the cryolite, which is the completely
dissociated electrolyte to which the electrical conduc-
tivity of the fused mixture is due. (Author)
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